

SPECIAL AIRWORTHINESS INFORMATION BULLETIN

Aircraft Certification Service
Washington, DC



U.S. Department
of Transportation

**Federal Aviation
Administration**

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<http://www.faa.gov/aircraft/safety/alerts/SAIB>

This is information only. Recommendations aren't mandatory.

Introduction

This Special Airworthiness Information Bulletin advises you, owners and operators of **Lycoming Engines (Lycoming) O-320-H, O-360-E, LO-360-E, TO-360-E, LTO-360-E series engines** of the following approval of an alternative method of compliance (AMOC) to the requirements of Airworthiness Directive (AD) 80-04-03 R2.

We have determined that the anti-wear additive contained in AeroShell Oil W 80 Plus is the same as Lycoming additive LW-16702 and therefore meets the requirements of Lycoming Service Bulletin 446B, 446C, and 446D. We have approved engine oil change to AeroShell Oil W 80 Plus as an AMOC to the requirements of AD 80-04-03 R2, paragraph b.1, with the limitations described below.

Background

AeroShell Oil W 80 Plus contains an additive that is identical to Lycoming's additive LW-16702, which AD 80-04-03 R2 requires to be added to certain O-360 engine models at each 50-hour oil service interval. We determined that the use of AeroShell Oil W 80 Plus provides the necessary anti-wear protection at engine start-up and therefore satisfies the intent of the AD. AeroShell Oil W 80 Plus joins three other additized aviation oils that have been approved as AMOCs to AD 80-04-03 R2.

We've listed the four approved additized oils in the table 1.

TABLE 1	
Additized Oil	Date of AMOC Approval
Aeroshell Oil W 15W-50	November 9, 1987
Aeroshell Oil W 100 Plus	May 4, 1999
Exxon Aviation Oil Elite 20W-50	January 24, 2000
AeroShell Oil W 80 Plus	February 6, 2006

Recommendations

We approve engine oil change to AeroShell Oil W 80 Plus as an AMOC to the requirements of AD 80-04-03 R2, paragraph b.1

Use of this AMOC is not mandatory, however, if you elect to use AeroShell Oil W 80 Plus, or any of the other approved additized oils when complying with AD 80-04-03 R2, the following limitations are applicable:

- If you elect to use approved additized oil at the 50-hour oil service interval, we require that you use the same brand and formula additized oil for any make-up oil additions performed during the service interval.
- If the same brand and formula approved additized oil is unavailable for make-up, a maximum of 2 quarts of a Lycoming approved oil listed in Lycoming Service Instruction No. 1014M can be added between 50 hour oil service intervals.

- If you add more than 2 quarts of a Lycoming approved oil listed in Lycoming Service Instruction No. 1014M during the 50 hour oil service interval, then we require that you add Textron Lycoming additive LW-16702.
- If you extend the oil service interval beyond 50 hours, we require that you add Textron Lycoming additive LW-16702 at 50 hours to maintain compliance with the AD.
- Mark each additized oil can with the statement identifying it as having been approved as an AMOC to the requirements of AD 80-04-03 R2, paragraph b.1.

For Further Information Contact

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